

12113347 MILL CREEK AT EARTHWORKS PARK, AT KENT, WA

LOCATION.--Lat 47°23'00", long 122°13'25", in SW 1/4 NW 1/4 sec.19, T.22 N., R.5 E., King County, Hydrologic Unit 17110013, at control-manhole of flood-detention basin in Earthworks Park, 250 ft upstream from Titus St., and 0.6 mi east of Kent City Hall.

DRAINAGE AREA.--2.49 mi².

PERIOD OF RECORD.--January 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is NGVD of 1929 (City of Kent benchmark).

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Natural flow affected by urbanization and construction of flood-control catchments. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--9 years (water year 1995-2003), 4.09 ft³/s, 22.33 in/yr, 2,960 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined Feb. 9, 1996, elevation, 47.52 ft, affected by backwater from debris caught on downstream culvert grates; maximum elevation, 48.05 ft May 13, 1996, affected by backwater from debris caught on downstream culvert grates; minimum discharge, 0.31 ft³/s July 5, 1995, Aug. 12, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 114 ft³/s Jan. 2, elevation, 46.01 ft; minimum daily discharge, 0.53 ft³/s, Sept. 14, 15, 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.76	e0.68	0.75	11	8.9	1.6	2.3	1.3	0.82	0.68	0.68	0.60
2	0.77	e0.66	0.75	21	5.3	2.5	2.3	1.3	0.81	0.68	0.71	0.61
3	3.4	e0.64	0.75	32	4.3	2.4	2.7	1.5	0.80	0.68	0.71	0.59
4	0.94	e0.69	0.96	12	3.1	1.7	1.9	1.6	0.81	0.68	0.74	0.55
5	0.78	e0.69	0.61	7.0	2.6	1.6	2.4	1.4	0.80	0.68	0.77	0.56
6	0.75	2.6	0.61	4.4	2.4	2.1	4.5	1.5	0.80	0.68	0.73	0.56
7	0.75	1.3	0.69	3.6	2.1	2.3	4.4	1.9	0.79	0.68	0.72	1.5
8	0.75	1.8	0.61	3.1	1.9	2.5	3.3	1.6	0.79	0.68	0.72	1.1
9	0.79	2.4	0.71	2.7	1.8	7.3	6.5	1.2	0.80	0.68	0.77	0.61
10	0.90	1.3	2.0	2.5	1.8	3.4	3.0	1.2	0.80	0.67	0.98	0.78
11	0.75	0.85	4.1	3.5	1.7	6.3	2.9	1.1	0.79	0.67	0.75	1.0
12	0.75	3.3	6.2	7.5	1.6	15	2.3	1.1	0.80	0.67	0.73	1.4
13	0.75	1.4	3.7	5.5	1.6	15	6.7	1.0	1.2	0.83	0.73	0.59
14	0.75	1.7	6.8	5.8	1.5	8.3	3.2	1.0	0.82	0.72	0.73	0.53
15	0.75	0.84	3.4	3.5	1.8	5.3	2.4	1.1	0.78	0.70	0.74	0.53
16	0.75	2.5	34	2.9	5.9	4.3	3.0	1.2	0.78	0.69	0.73	0.88
17	0.75	1.0	15	2.7	3.3	3.0	2.9	1.9	0.77	0.69	0.74	0.55
18	e0.75	1.3	5.9	2.5	2.6	2.8	2.0	1.1	0.78	0.68	0.92	0.54
19	e0.73	2.2	3.8	2.4	2.6	3.1	1.8	1.0	0.77	0.68	0.61	1.6
20	e0.80	0.85	3.0	2.3	2.6	4.1	1.7	1.1	0.76	0.68	0.74	0.59
21	e0.74	0.70	2.7	7.9	4.3	7.1	2.9	1.2	1.2	0.68	0.73	0.59
22	e0.74	0.76	2.4	12	4.3	15	1.9	1.0	0.79	0.68	0.70	0.57
23	e0.69	0.75	2.3	9.0	2.6	7.8	2.2	0.99	0.73	0.68	0.68	0.56
24	e0.72	0.75	3.2	10	2.1	4.3	5.0	0.96	0.71	0.68	0.66	0.58
25	e0.77	0.75	2.9	8.7	1.9	3.6	2.5	1.8	0.71	0.68	0.66	0.55
26	e0.70	0.75	3.4	31	1.8	3.9	2.0	1.0	0.69	0.67	0.67	0.56
27	e0.72	0.75	4.8	18	1.7	2.6	1.7	0.94	0.68	0.67	0.67	0.55
28	e0.72	0.78	3.0	12	1.9	2.2	1.6	0.93	0.68	0.67	0.65	0.55
29	e0.72	0.78	4.0	12	---	2.0	1.5	0.90	0.68	0.68	0.63	0.56
30	e0.68	0.75	5.2	12	---	2.0	1.4	0.89	0.71	0.67	0.62	0.53
31	e0.66	---	6.1	13	---	5.7	---	0.88	---	0.66	0.61	---
TOTAL	25.98	36.22	134.34	283.5	80.0	150.8	84.9	37.59	23.85	21.22	22.23	21.27
MEAN	0.84	1.21	4.33	9.15	2.86	4.86	2.83	1.21	0.80	0.68	0.72	0.71
MAX	3.4	3.3	34	32	8.9	15	6.7	1.9	1.2	0.83	0.98	1.6
MIN	0.66	0.64	0.61	2.3	1.5	1.6	1.4	0.88	0.68	0.66	0.61	0.53
AC-FT	52	72	266	562	159	299	168	75	47	42	44	42
CFSM	0.34	0.48	1.74	3.67	1.15	1.95	1.14	0.49	0.32	0.27	0.29	0.28
IN.	0.39	0.54	2.01	4.24	1.20	2.25	1.27	0.56	0.36	0.32	0.33	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY)

MEAN	2.09	7.31	8.19	8.56	7.22	5.12	3.25	1.98	1.68	1.08	1.04	1.08
MAX	4.44	13.2	12.6	15.1	20.0	8.34	8.03	3.09	3.45	1.66	1.40	1.88
(WY)	(1998)	(2000)	(1996)	(1997)	(1996)	(1999)	(1996)	(1996)	(1997)	(1997)	(1999)	(1997)
MIN	0.84	1.21	2.29	2.73	2.43	2.55	1.69	1.08	0.80	0.68	0.59	0.71
(WY)	(2003)	(2003)	(2001)	(2001)	(2001)	(1998)	(1998)	(1995)	(2003)	(2003)	(1994)	(2003)

SUMMARY STATISTICS			FOR 2002 CALENDAR YEAR				FOR 2003 WATER YEAR				WATER YEARS 1994 - 2003		
ANNUAL TOTAL			1,058.39				921.90				4.09		
ANNUAL MEAN			2.90				2.53				6.32		
HIGHEST ANNUAL MEAN											1996		
LOWEST ANNUAL MEAN											2.21		
HIGHEST DAILY MEAN			34				34				124		
LOWEST DAILY MEAN			0.61				0.53				Nov 14, 2001		
ANNUAL SEVEN-DAY MINIMUM			0.67				0.55				0.44		
ANNUAL RUNOFF (AC-FT)			2,100				1,830				0.47		
ANNUAL RUNOFF (CFSM)			1.16				1.01				2,960		
ANNUAL RUNOFF (INCHES)			15.81				13.77				1.64		
10 PERCENT EXCEEDS			6.2				5.7				22.33		
50 PERCENT EXCEEDS			1.3				1.0				9.7		
90 PERCENT EXCEEDS			0.75				0.66				1.8		
e Estimated											0.76		